



 **Oregon**
S C I E N T I F I C

 **msn**  **Direct**

WeatherNow II
Dynamic 4-Day Forecaster
Model: WMS802

USER MANUAL



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INTRODUCTION

Thank you for selecting the Oregon Scientific™ WeatherNow II Dynamic 4-Day Forecaster with MSN® Direct Weather Data Service (WMS802). This product is designed to receive an FM radio signal from MSN Direct. The radio signal is decoded by the unit and transforms the data into the weather information you can view on the LCD screen. When the unit receives the MSN Direct service, its clock and time zone are set automatically for your convenience.

MSN Direct Weather Data Service covers North American Metropolitan areas. For coverage maps, see www.msndirect.com/coverage.

NOTE Indoor temperature is measured by the product's internal sensors.

NOTE After the unit is turned on, it will usually take between 4 and 15 minutes to acquire the MSN Direct signal and obtain weather information, depending on the strength of the signal. If the weather is not displayed within 15 minutes, please ensure the antenna chord is fully extended, and either reposition the antenna or move the unit to another location with better reception.

Keep this manual handy as you use your new product. It contains practical step-by-step instructions, as well as technical specifications and warnings you should know about.

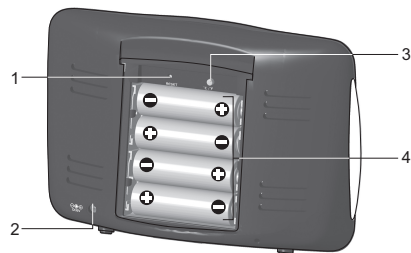
PRODUCT OVERVIEW

FRONT VIEW



1. **SNOOZE:** Activate 8-minute snooze or backlight
2. **▲ / ▼:** Increase / decrease setting; enable / disable alarm
3. **MODE:** Change clock settings and clock / sunrise / sunset display
4. **ALARM:** View alarm status; set alarm

BACK VIEW

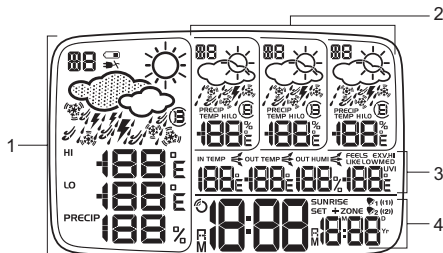


1. **RESET:** Resets unit to default settings
2. **AC adapter hole**
3. **°C / °F:** Selects temperature unit
4. **Battery compartment**



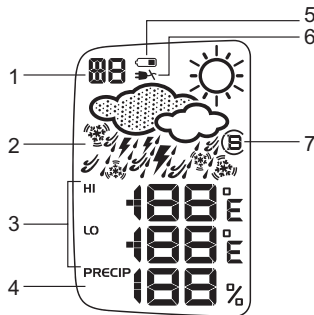
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LCD DISPLAY



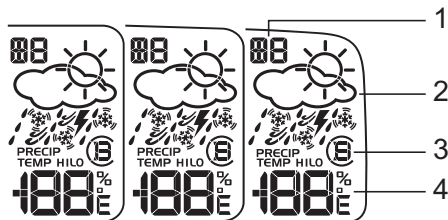
1. Today's Weather Forecast / High and Low Temperature / Chance of Precipitation Area
2. 3-Day Weather / Temperature / Chance of Precipitation Forecast Area
3. Indoor / Outdoor / Feels Like Temperature / Outdoor Humidity and UV Area
4. Clock / Alarm / Calendar / Sunrise / Sunset Area

Today's Weather Forecast / High and Low Temperature / Chance of Precipitation Area



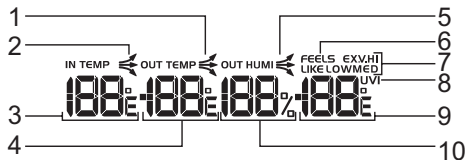
1. Current day
2. Today's / tonight's weather forecast
3. Today's high / low temperature reading
4. % chance of rain
5. Main unit battery is low
6. Adapter is disconnected
7. Smoke / fog / haze / dust icon

3-Day Weather / Temperature / Chance of Precipitation Forecast Area



1. Day of the week
2. Forecasted weather icon
3. Smoke / fog / haze / dust icon
4. Temperature / humidity or rainfall forecast

Indoor / Outdoor / Feels Like Temperature / Outdoor Humidity and UV Area

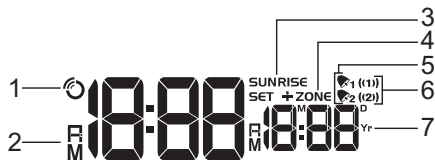


1. Outdoor temperature trend
2. Indoor temperature trend
3. Indoor temperature
4. Outdoor temperature
5. Outdoor humidity trend
6. "Feels like" outdoor temperature
7. UV index level
8. UVI reading is displayed
9. Outdoor temperature "feels like" reading
10. Outdoor humidity



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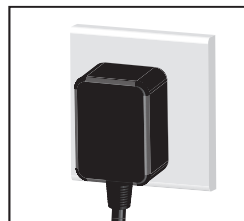
Clock / Alarm / Calendar / Sunrise / Sunset Area



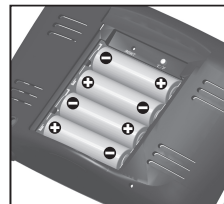
1. Clock radio reception
2. AM / PM clock display
3. Sunrise and sunset time displayed
4. Offset time zone
5. Alarm 1 or 2 is set
6. Alarm 1 or 2 is displayed
7. Time / date / calendar

GETTING STARTED

POWER



Insert batteries matching the polarity + and -. Press **RESET** after each battery change.



NOTE For longer lasting use, the AC adapter should be the unit's main source of power. The batteries are for back-up use only.



NOTE Do not use rechargeable batteries. It is recommended that you use alkaline batteries with this product for longer performance.

-  shows when AC adapter is disconnected.
 shows when batteries are low.

ABOUT MSN® DIRECT RADIO SIGNAL

The MSN® Direct service is delivered over the Microsoft® DirectBand™ network, a wide-area network based on FM radio technology. This radio signal transmits to the unit most of the information that is displayed i.e. weather, temperature, humidity, UV, and local time with DST adjustment. For more information on MSN Direct, please visit www.msndirect.com.


When you insert the AC adapter or batteries, the unit will automatically start searching for the MSN Direct radio signal.

Weather information shows when the signal has been received. “- - -” shows when the signal has NOT been received.

If you cannot receive a signal:

- Ensure the antenna is fully extended and try repositioning it.
- Place the unit in a different location.
- Make sure the unit is away from metallic or electronic objects.
- Force a signal search.

To force a search for the signal:

- Press and hold . The unit will search for a signal for 15 minutes.

NOTE Signals from household devices such as doorbells, electronic garage doors, and home security systems may cause temporary reception failure. This is normal and does not affect general product performance. The reception will resume once the interference ends.

Overlapping coverage

In areas of overlapping city data coverage, the unit will automatically select data from the tower it gets the best reception from.



MSN DIRECT RECEPTION

This product is designed to synchronize its weather, time, and date automatically when it receives the MSN Direct signal.

Reception signal status:

Connected to network. Time, date, and weather are synchronized	Not connected to network. Time, date, and weather are not synchronized

For best reception, the clock and antenna should be placed on a flat, non-metallic surface near a window. The antenna should be placed away from electrical appliances and not be moved around when searching for a signal. Please wait at least 15 minutes for the device to acquire the signal before moving the antenna or trying the unit in another location.

To enable / disable the clock radio reception (clock synchronization):

Press and hold / .

The only appears when the MSN Direct reception is enabled.

CLOCK / CALENDAR

Press **MODE** to toggle between the following displays:

- Clock and calendar
- Sunrise time and calendar
- Sunset time and calendar

To change the clock:

(You only need to set the clock and calendar if you have disabled the clock reception.)

1. Press and hold **MODE** to enter clock setting.
2. Use or to change the setting. Press and hold to speed through values.
3. Press **MODE** to confirm.
4. The setting sequence is time zone offset, hour, minute, year, month and day.



NOTE If you enter +1 in the time zone setting, this will give you your regional time plus 1 hour.

ALARM



To set alarm 1 or 2:

1. Press **ALARM** to select alarm 1 or 2.
2. Press and hold **ALARM** to enter alarm setting.
3. Use or to change the setting. (Press and hold to speed through values.)
4. Press **ALARM** to confirm.
5. The setting sequence is hour and minute

The alarm icon will appear on the display to show which alarm has been set:

ICON	MEANING
 1  2	Alarm 1/2 is set
No icons	No alarm is set

To activate / deactivate an alarm:

1. Press **ALARM** to select alarm 1 and 2.
2. Press  or  to activate or deactivate it.

To silence the alarm:

























- Press **SNOOZE** to silence it for 8 minutes.
- OR**
- Press any key except **SNOOZE** to turn the alarm off and activate it again after 24 hours.

WEATHER FORECAST

The large, animated weather display on the left of the screen shows the current weather. The 3 smaller weather displays show the 3-day forecast and automatically switch between displaying:

- High / Low temperature
- % Precipitation i.e. the % chance of rain



DESCRIPTION	TODAY'S WEATHER ICON	3-DAY FORECAST ICON
Clear		
Partly Cloudy		
Cloudy		
Rain		
Snow		
Thunder		
Dust		
Fog		
Haze		
Smoke		
Windy		
Frigid		



TEMPERATURE AND HUMIDITY



The weather station displays current:

- Indoor and regional temperature and trend
- Regional humidity and trend
- "Feels like" temperature (ie the real feel of the outdoor temperature when the wind chill and Heat Index are factored in)
- UV Index

To select the temperature measurement unit:

Press °C / °F (inside the battery compartment), to the setting you want.

The trend indicator arrow shows if the temperature or humidity is:

RISING	STEADY	FALLING
		

UVI / FEELS LIKE TEMPERATURE

The unit will automatically toggle between the "feels like" temperature and UV Index display.

The UV Index readings are as follows:

UV INDEX	DANGER LEVEL
0-2	Low
3-5	Moderate
6-7	High
8-10	Very High
11 and above	Extremely high

BACKLIGHT

Press **SNOOZE** to illuminate the backlight.
Press and hold **SNOOZE** to turn on or off the backlight always ON function.

RESET SYSTEM

Press **RESET** (in the battery compartment) to return the unit to the default settings.

CUSTOMER TERMS AND CONDITIONS

“Coverage Area” means the areas of the United States and Canada (exclusive of U.S. Territories and Puerto Rico) in which the Service is available using the FM Subcarrier Network – these areas may change from time to time and coverage in a given geographic region may become unavailable.

“Device” means the Weather Clock.

“FM Subcarrier Network” means Microsoft’s DirectBand® FM subcarrier network of FM radio stations located in the Coverage Area.

“Service” means the weather information service provided via the Device according to this Agreement.

The Service and the FM Subcarrier Network will remain in operation through at least 2011, but may change from time to time. Such changes include, but are not limited to, removal of, additions to or changes to content delivered as part of the Service and Coverage Area. We do not promise that the Service or the FM Subcarrier Network will be available all the time. The Device should show text and other content provided over the FM Subcarrier Network if the Device is appropriately produced and configured by the Device retailer. The Service does not include sending data from Devices.

The entire Service is subject to the disclaimers and limitations contained in this Agreement. Data is not necessarily real-time data.

Reception Limitations: Receipt of data is affected by the interruption of FM transmission, the relative strength of the signal, and reception limitations of the FM Subcarrier Network, as well as other factors such as your location within certain structures that may block FM signals (e.g., when you are in a garage).

The Service is only for your personal use. You will not use the Service for commercial purposes. You will not use the Service in any way that is unlawful. You may not use the Service in any way that breaches any code of conduct or other notice applicable to the Service.

NO WARRANTY

WE PROVIDE THE SERVICE “AS IS,” “WITH ALL FAULTS” AND “AS AVAILABLE,” AND THE ENTIRE RISK AS TO SATISFACTORY QUALITY, PERFORMANCE, ACCURACY, AND EFFORT IS WITH YOU. WE, OUR AFFILIATES, RESELLERS, DISTRIBUTORS, SERVICE PROVIDERS AND/OR SUPPLIERS, INCLUDING ENTITIES IN THE FM SUBCARRIER NETWORK (COLLECTIVELY, THE “OSI PARTIES”) MAKE NO WARRANTIES. THE OSI PARTIES DISCLAIM ANY AND ALL WARRANTIES, EXPRESS, STATUTORY AND IMPLIED, INCLUDING WITHOUT LIMITATION (1) WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR



TITLE, QUITE ENJOYMENT, NO ENCUMBRANCES, NO LIENS AND NON-INFRINGEMENT, (2) WARRANTIES ARISING THROUGH COURSE OF DEALING OR USAGE OF TRADE, AND (3) WARRANTIES THAT ACCESS TO OR USE OF THE SERVICE WILL BE UNINTERRUPTED OR ERROR-FREE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE FACE OF THIS AGREEMENT.

IN NO EVENT SHALL ANY OF THE OSI PARTIES BE LIABLE FOR ANY INDIRECT, CONSEQUENTIAL, SPECIAL, INCIDENTAL, OR PUNITIVE DAMAGES ARISING OUT OF, BASED ON, OR RESULTING FROM THIS AGREEMENT OR YOUR USE OF THE SERVICE, EVEN IF ANY OF THE OSI PARTIES HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE EXCLUSION OF DAMAGES UNDER THIS SECTION IS INDEPENDENT OF ANY OTHER REMEDY AND SURVIVES IN THE EVENT ANY SUCH REMEDY FAILS OF ITS ESSENTIAL PURPOSE OR IS OTHERWISE DEEMED UNENFORCEABLE. THE LIMITATIONS AND EXCLUSIONS IN THIS SECTION APPLY WITHOUT REGARD TO WHETHER THE DAMAGES ARISE FROM (1) BREACH OF CONTRACT, (2) BREACH OF WARRANTY, (3) NEGLIGENCE, MISREPRESENTATION OR OTHER TORT, (4) PRODUCTS LIABILITY, OR (5) ANY OTHER CAUSE OF ACTION TO THE EXTENT NOT PROHIBITED BY APPLICABLE LAW.

CHANGES TO THE SERVICE

The OSI parties may change the service or delete

features in any way, at any time and for any reason.

OSI may terminate or suspend the Service at any time, with or without cause, with or without notice. Upon termination of the Service, your right to use the Service will immediately cease, and OSI will have no obligation to provide the Service to you.

PRECAUTIONS

This product is engineered to give you years of satisfactory service if you handle it carefully. Here are a few precautions:

- Placement of this product on wood surfaces with certain types of finishes, such as clear varnish, may result in damage to the finish. Consult the furniture manufacturer's care instructions for direction as to the types of objects that may safely be placed on the wood surface. Oregon Scientific shall not be responsible for any damage to wood surfaces from contact with this product.
- Do not immerse the unit in water. If you spill liquid over it, dry it immediately with a soft, lint-free cloth.
- Do not clean the unit with abrasive or corrosive materials.
- Do not subject the unit to excessive force, shock, dust, temperature or humidity, which may result in malfunction, shorter electronic life span, damaged battery and distorted parts.

- Do not tamper with the unit's internal components. Doing so will invalidate the warranty on the unit and may cause unnecessary damage. The unit contains no user-serviceable parts.
- Only use fresh batteries as specified in the user's instructions. Do not mix new and old batteries.
- Due to printing limitations, the displays shown in this manual may differ from the actual display.
- The contents of this manual may not be reproduced without the permission of the manufacturer.

NOTE The technical specification of this product and contents of this user guide are subject to change without notice. Images not drawn to scale.

TROUBLESHOOTING

PROBLEM	SYMPTOM	REMEDY
Clock	Cannot adjust clock	Disable MSN Direct signal reception and then set the clock manually (see the MSN Direct Reception section)
	Cannot auto-synch	1. Adjust batteries 2. Press RESET 3. Manually activate signal reception
Temp	Shows "LL" or "HH"	The temperature is outside the display range of the unit
LCD screen	Displays unclearly for a short time once it has been turned off	If the adapter is plugged in and out in quick succession, the unit stores a small amount of power for a short period of time



SPECIFICATIONS

Unit dimensions (L x W x H)	150 x 45 x 95 mm (5.9 x 1.8 x 3.7 inches)
Weight without batteries	292 grams (10.3 ounces)
TEMPERATURE – °C or °F	
Indoor range	-5°C to 50°C (23°F to 122°F)
Outdoor range	-62°C to 78°C (-80°F to 173°F)
Resolution	1°C (2°F)
WEATHER	
Display	Sunny, partly cloudy, cloudy, rainy, snowy, thunder, dust, fog, haze, smoke, windy, frigid
CLOCK	
Synchronization	Auto or disabled
Clock display	HH:MM:SS
Hour format	12 / 24hr
Calendar	DD/MM or MM/DD;
Dual alarm	2-minute beep sound volume 8-minute snooze
POWER	
• Adapter	6V AC adapter
• Batteries (for back-up use only)	4 x UM-3 (AA) 1.5V

NOTE It is recommended that you use alkaline batteries with this product for longer performance.

ABOUT OREGON SCIENTIFIC

Visit our website (www.oregonscientific.com) to learn more about Oregon Scientific products such as digital cameras; MP3 players; children's electronic learning products and games; projection clocks; health and fitness gear; weather stations; and digital and conference phones. The website also includes contact information for our Customer Care department in case you need to reach us, as well as frequently asked questions and customer downloads.

We hope you will find all the information you need on our website, however if you're in the US and would like to contact the Oregon Scientific Customer Care department directly, please visit:
www2.oregonscientific.com/service/default.asp

OR
Call 1-800-853-8883.

For international inquiries, please visit:
www2.oregonscientific.com/about/international.asp

FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

WARNING Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment

and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

DECLARATION OF CONFORMITY

The following information is not to be used as contact for support or sales. Please call our customer service number (listed on our website at www.oregonscientific.com), or on the warranty card for this product) for all inquiries instead.

We

Name: Oregon Scientific, Inc.
Address: 19861 SW 95th Ave.,
Tualatin, Oregon 97062 USA
Telephone No.: 1-800-853-8883

declare that the product

Product No.: WMS802
Product Name: WeatherNow II
Dynamic 4-Day Forecaster



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Manufacturer: IDT Technology Limited
Address: Block C, 9/F, Kaiser Estate,
Phase 1, 41 Man Yue St.,
Hung Hom,
Kowloon, Hong Kong

is in conformity with Part 15 of the FCC Rules.
Operation is subject to the following two conditions:
1) This device may not cause harmful interference.
2) This device must accept any interference
received, including interference that may cause
undesired operation.



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